

Morton County

Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors 6/27/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 12 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Morton County economy.¹

These 12 sectors have a total direct output of approximately **\$73.7 million** and support **494 jobs** in Morton County. Running the model for all 12 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Morton County Economy					
Contribution Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵
Direct Effect	493.7	27.86%	\$12,994,544	14.95%	\$73,693,140
Indirect Effect	84.1	4.75%	\$6,281,260	7.23%	\$14,110,362
Induced Effect	68.0	3.84%	\$4,427,144	5.09%	\$8,926,267
Total Effect	645.8	36.45%	\$23,702,947	27.27%	\$96,729,769

As shown in the above table, agriculture, food, and food processing sectors support **646 jobs**, or **36.45%** of the entire workforce in the county.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 12 agriculture, food, and food processing sectors is approximately **\$23.7 million**, or **27.27% of the GRP**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

<https://implanhelp.zendesk.com/hc/en-us/articles/115002801513-Considerations-of-Contribution-Analysis>

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **228 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Morton County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	227.5	\$21,205,069
Grain farming	193.0	\$47,714,188
Cotton farming	32.0	\$1,716,809
Animal production, except cattle and poultry and eggs	25.4	\$1,569,081
Wholesale trade	24.8	\$4,760,350
Real estate	12.3	\$761,385
Full-service restaurants	9.5	\$364,952
Truck transportation	8.1	\$1,701,826
Monetary authorities and depository credit intermediation	7.3	\$1,187,092
All other crop farming	7.2	\$359,361

The grain farming sector directly contributes approximately **\$47.7 million** to the Morton County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Grain farming	193.0	\$47,714,188
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	227.5	\$21,205,069
Wholesale trade	24.8	\$4,760,350
Owner-occupied dwellings	0.0	\$2,192,090
Cotton farming	32.0	\$1,716,809
Truck transportation	8.1	\$1,701,826
Animal production, except cattle and poultry and eggs	25.4	\$1,569,081
Monetary authorities and depository credit intermediation	7.3	\$1,187,092
Insurance carriers	2.8	\$1,100,930
Extraction of natural gas and crude petroleum	2.7	\$1,036,538

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Morton County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	0.2	\$103,879.40
Grain farming	193.0	\$47,714,187.62
Fruit farming	1.0	\$19,494.59
Tree nut farming	0.0	\$9.73
Cotton farming	31.0	\$1,661,795.62
All other crop farming	7.2	\$359,361.26
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	227.5	\$21,205,068.59
Animal production, except cattle and poultry and eggs	25.4	\$1,569,081.19
Commercial hunting and trapping	0.6	\$11,558.74
Support activities for agriculture and forestry	3.3	\$251,925.14
Bread and bakery product, except frozen, manufacturing	3.2	\$370,389.10
Farm machinery and equipment manufacturing	1.4	\$426,388.32

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Morton County, the retail sector was omitted.